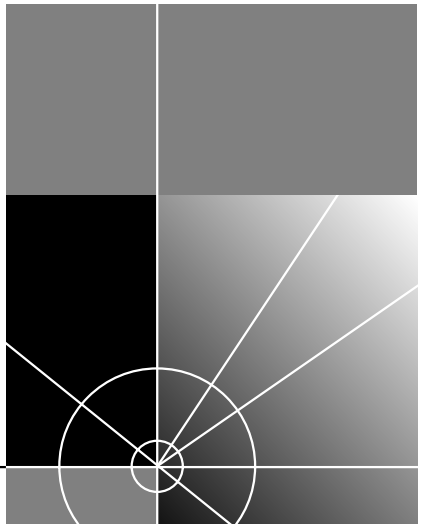
32 MB Memory Upgrade
for the CoreBuilder 7000HD Switch
Installation Guide



http://www.3com.com/

Part No. DIA37OU-1AAA02
Published November 1998

Downloaded from www.Manualslib.com manuals search engine

3Com Corporation
5400 Bayfront Plaza
Santa Clara, California
95052-8145

Copyright © 1998, 3Com Corporation. All rights reserved. No part of this documentation may be reproduced in any form or by any means or used to make any derivative work (such as translation, transformation, or adaptation) without written permission from 3Com Corporation.

3Com Corporation reserves the right to revise this documentation and to make changes in content from time to time without obligation on the part of 3Com Corporation to provide notification of such revision or change.

3Com Corporation provides this documentation without warranty, term, or condition of any kind, either implied or expressed, including, but not limited to, the implied warranties, terms or conditions of merchantability, satisfactory quality, and fitness for a particular purpose. 3Com may make improvements or changes in the product(s) and/or the program(s) described in this documentation at any time.

If there is any software on removable media described in this documentation, it is furnished under a license agreement included with the product as a separate document, in the hard copy documentation, or on the removable media in a directory file named LICENSE.TXT or !LICENSE.TXT. If you are unable to locate a copy, please contact 3Com and a copy will be provided to you.

UNITED STATES GOVERNMENT LEGEND

If you are a United States government agency, then this documentation and the software described herein are provided to you subject to the following:

All technical data and computer software are commercial in nature and developed solely at private expense. Software is delivered as "Commercial Computer Software" as defined in DFARS 252.227-7014 (June 1995) or as a "commercial item" as defined in FAR 2.101(a) and as such is provided with only such rights as are provided in 3Com's standard commercial license for the Software. Technical data is provided with limited rights only as provided in DFAR 252.227-7015 (Nov 1995) or FAR 52.227-14 (June 1987), whichever is applicable. You agree not to remove or deface any portion of any legend provided on any licensed program or documentation contained in, or delivered to you in conjunction with, this User Guide.

Unless otherwise indicated, 3Com registered trademarks are registered in the United States and may or may not be registered in other countries.

3Com, the 3Com logo, Net Age, NETBuilder II, SuperStack, Transcend, and TranscendWare are registered trademarks of 3Com Corporation. ATMLink, CoreBuilder, are trademarks of 3Com Corporation. 3ComFacts is a service mark of 3Com Corporation.

CompuServe is a registered trademark of CompuServe, Inc. Microsoft, MS-DOS, Windows, and Windows NT are registered trademarks of Microsoft Corporation.

HP OpenView is a registered trademark of Hewlett-Packard Company. SunNet Manager is a trademark of the Sun Microsystems, Inc.

All other company and product names may be trademarks of the respective companies with which they are associated.

Document designed and written by Laura Novich, photography by Oren Ben-Ami. Production by 3Com.

Downloaded from www.Manualslib.com manuals search engine

CONTENTS

ABOUT THIS GUIDE

Scope of This Guide i
Who Should Use This Guide i
Organization i
Conventions ii
Related Documentation ii

1 INTRODUCTION

General 1-1
Installation Upgrade KIt 1-1
Safety Precautions 1-2
ESD Safety Information 1-2
Information sur la prévention de décharges électrostatiques 1-3
Sicherheitsinformationen für elektrostatische Entladungen 1-3
32MB Memory Upgrade SIMM 1-4
Inspecting the 32MB SIMM 1-4
Identifying the 32MB Memory Upgrade SIMM 1-4

2 32MB MEMORY UPGRADE INSTALLATION ON THE COREBUILDER 7000HD SWITCH MODULE

32Mb Memory Upgrade Steps 2-1
Step 1: Removing the CoreBuilder 7000HD Switch Module from the Chassis 2-1
Step 2: Removing the 16MB Memory SIMM 2-5
Step 3: Inserting the 32MB Memory SIMM 2-7
Step 4: Returning the CoreBuilder 7000HD Switch Module back to the Chassis 2-9
Verifying 32MB Memory Upgrade 2-9

INDEX

Downloaded from www.Manualslib.com manuals search engine

Downloaded from www.Manualslib.com manuals search engine

About This Guide

Scope of This Guide

The *32MB Memory Upgrade for the CoreBuilder 7000HD Switch Installation Guide* provides all the information needed to mount the 32MB Memory SIMM on the CoreBuilder 7000HD Switch Module. This document provides a step-by-step installation procedure for the 32MB Memory SIMM.

Who Should Use This Guide

The *32MB Memory Upgrade for the CoreBuilder 7000HD Switch Installation Guide* is intended for anyone moderately familiar and handy with common household tools. No prior knowledge of 3Com's CoreBuilder networking equipment is necessary to understand this manual.

Organization

The *32MB Memory Upgrade for the CoreBuilder 7000HD Switch Installation Guide* is organized so that the information needed can be accessed directly. The parts of the document are described below.

Chapter 1: Introduction

This chapter presents the Memory Upgrade SIMM and assembly kit (combined as 3C37041) at a glance, describes required materials and explains the safety precautions that must be followed when installing the 32MB SIMM.

Chapter 2: 32MB Installation on the CoreBuilder 7000HD Switch Module

This chapter describes a photo-illustrated procedure of the various stages required to mount the 32Mb Memory SIMM on the CB7000HD Switch Module.

Downloaded from www.Manualslib.com manuals search engine

Conventions

Table 1 lists the icons and typographical conventions used in this guide.

Notice icons indicate statements that you need to read before continuing in the guide. Table 1 describes these icons.

Table 1 Notice Icons

Icon	Type	Description
	Information Note	Information notes call attention to important features or instructions.
	Caution	Cautions alert you to personal safety risk, system damage, or loss of data.
	Warning	Warnings alert you to the risk of severe personal injury.

Related Documentation

The complete documentation for the interface boards and the CoreBuilder 7000HD which they serve includes:

- CoreBuilder 7000HD Installation and Startup Guide (#DUA3700-0BAA03)
- CoreBuilder 7000HD User Guide (#DUA3700-0AAA05)

Table 2 describes important information in the CoreBuilder 7000HD documentation to help you locate the information you need.

Table 2 CoreBuilder 7000/7000HD Documentation Road Map

If you want to...	Read...
Get an overview of the CoreBuilder 7000 ATM switch, including system components.	*Installation and Startup Guide*
Learn about various configurations in which you can install your CoreBuilder 7000 ATM switch.	*Installation and Startup Guide*
Install and power up your CoreBuilder 7000 ATM switch.	*Installation and Startup Guide*
Learn about how you administer and manage the CoreBuilder 7000 ATM switch.	*Installation and Startup Guide* / *User Guide*

Downloaded from www.Manualslib.com manuals search engine

Table 2 CoreBuilder 7000/7000HD Documentation Road Map (continued)

If you want to...	Read...
Learn about ATM and how it is implemented in the CoreBuilder 7000 ATM switch.	*User Guide*
Learn about LAN Emulation and how it is implemented in the CoreBuilder 7000 ATM switch.	*User Guide*
Find out what type of configuration tasks you can perform on the CoreBuilder 7000 ATM switch.	*User Guide*
Perform configuration or administration tasks using the Administration Console.	*Installation and Startup Guide* / *User Guide*
Get assistance.	*Technical Support Appendix in any guide*

Downloaded from www.Manualslib.com manuals search engine

Downloaded from www.Manualslib.com manuals search engine

1 INTRODUCTION

General

The CoreBuilder 7000HD Switch Engine 32MB Memory Upgrade Kit (3C37041) increases the ATM switching capacity, measured in calls, by a factor of four to five. This upgrade is available in conjunction with the CoreBuilder 7000 family software version 4.0, and replaces the existing 16MB memory included on the switch board. Installation of the memory upgrade is simple, and no other modifications are required. Software version 4.0 automatically recognizes the larger memory, and immediately utilizes it for additional call capacity. Included with this kit is an ESD wrist strap to prevent damage to the SIMM and to the switch from electrostatic emmisions.

Installation Upgrade KIt

In order to help you, 3Com supplies all the tools necessary for the upgrade in the installation upgrade kit. The installation upgrade kit supplied with the 32MB SIMM contains the following items (see Figure 1-1):

- ESD wrist strap
- A #1 flat head screwdriver
- Release key - to be used to remove the switch board from the chassis according to the instructions on the following pages

Downloaded from www.Manualslib.com manuals search engine

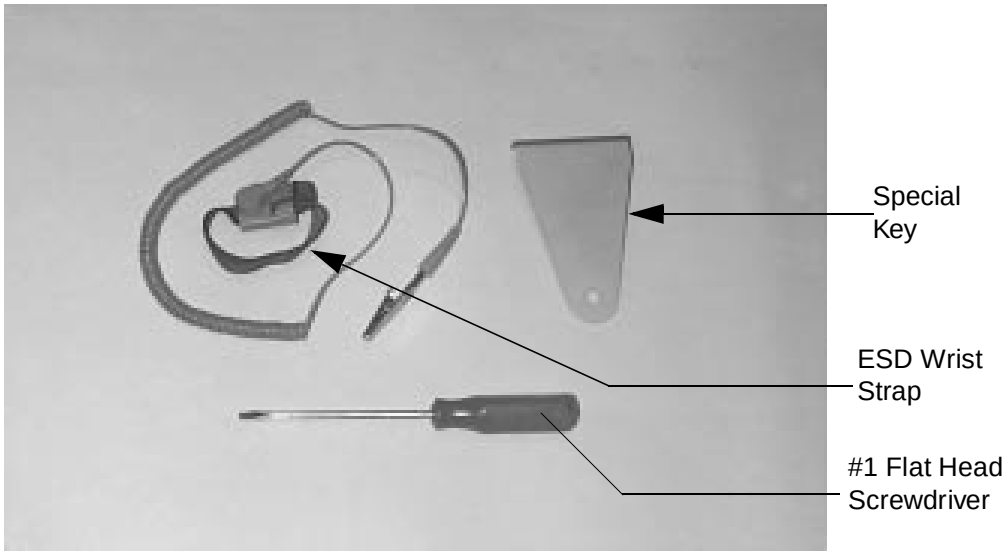


Figure 1-1 Installation Upgrade Kit

Safety Precautions

Before working with any component in the CoreBuilder 7000 System, read and adhere to the following safety precautions.

ESD Safety Information

Electrostatic Discharge (ESD) can damage components on the system module. ESD, which occurs when the module or a component is improperly handled, can cause complete or intermittent failures.

CAUTION: *To prevent ESD-related damage:*

- *Always wear the ESD wrist strap supplied, ensuring that the strap is firmly secured to your wrist. The other end should be connected to a grounded surface Connect the clip on the end of the wrist strap to a grounding point on an anti-static table or to a grounded distribution rack.*
- *Keep the 32MB Memory SIMM in its antistatic shielded bag until you are ready to install it.*
- *When working with CoreBuilder 7000 components, always place the component on the antistatic bag that it was shipped in.*

Downloaded from www.Manualslib.com manuals search engine

Information sur la prévention de décharges électrostatiques

Les décharges électrostatiques peuvent endommager des éléments du module. Ces décharges, qui surviennent lors d'une manipulation inadéquate du module, peuvent entraîner une défaillance temporaire ou permanente.

ATTENTION: *Pour éviter des dommages électrostatiques:*

- *Assurez-vous d'être bien branché à la terre. Utilisez un sous-pied et un tapis relié à la terre ou portez un bracelet mis à la terre et veillez à ce que le contact dermique soit bon.*
- *Conservez le module dans un sac antistatique jusqu'à son installation.*

Sicherheitsinformationen für elektrostatische Entladungen

Elektrostatische Entladungen (ESD) können einzelne Baugruppen oder das gesamte Modul beschädigen. ESD können vorkommen, wenn das Modul nicht richtig gehandhabt wird und können eine dauerhafte oder zeitweilige Fehlfunktion bewirken.

Downloaded from www.Manualslib.com manuals search engine

***VORSICHT**: Zur Verhütung von Schadën durch ESD:*

- *Vergewissern Sie sich, daß Sie richtig geerdet sind. Benutzen Sie ein Fußband und eine geerdete Matte oder tragen Sie ein geerdetes Handgelenkband mit gutem Hautkontakt.*
- *Lassen Sie das Modul bis zur Installation in der Anti-Statik-Tasche.*

32MB Memory Upgrade SIMM

This section explains how to handle and identify the 32MB Memory Upgrade SIMM.

Inspecting the 32MB SIMM

Before touching the memory SIMM make sure that you are using the ESD wrist strap and that it is connected as described previously. The SIMM should only be held from the sides. Carefully remove the SIMM from the antistatic bag and inspect it for damages. If the SIMM appears to be damaged, return it to the antistatic bag and contact your 3Com Representitive.

Identifying the 32MB Memory Upgrade SIMM

To accurately identify the product as 32MB check for a label with the inscription "32MB" on the upper component side of the SIMM (Figure 1-2). Make sure the SIMM has the 32MB label.

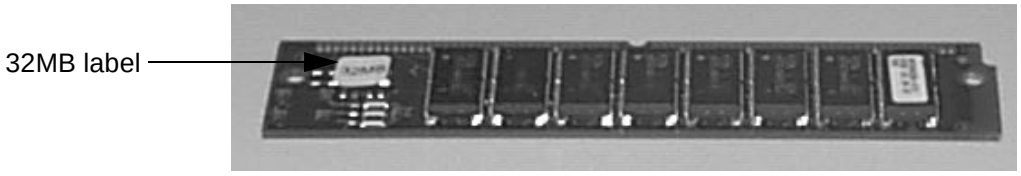


Figure 1-2 32MB Memory SIMM

Downloaded from www.Manualslib.com manuals search engine

2 32MB Memory Upgrade Installation on the CoreBuilder 7000HD Switch Module

32MB Memory Upgrade Steps

Step 1 Removing the CoreBuilder 7000HD Switch Module from the Chassis

Before starting, make sure that you wearing the ESD wrist strap and that you are properly connected to grounding equipment as described in "Safety Precautions" on page 1-2.

1 Disconnect the cables from the module's ports. Ensure that there is a record of where the cables are attached so that you can correctly re-connect them to the module when finished.

2 With the #1 flathead screwdriver supplied, loosen the two captive screws located on the far left and right of the module near the ejector handles (Figure 2-1). Do not remove the screws.

Downloaded from www.Manualslib.com manuals search engine

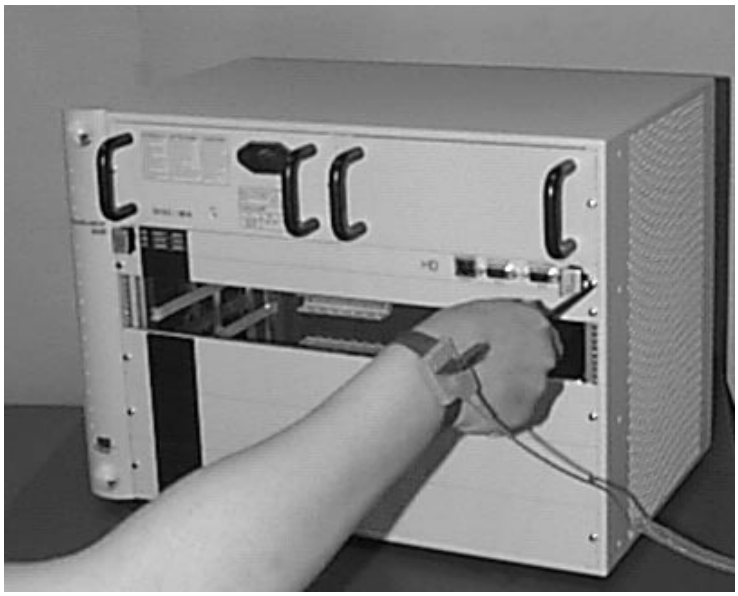


Figure 2-1 Loosening the Captive Screws

3 Grasp the ejector handles of the card and push them outward (Figure 2-2). This ejects the card slightly. You may have to apply considerable force to the handles in order to eject the card. You will hear a "click" to indicate that the connections have separated, and the card will slide slightly forward out of the CoreBuilder chassis.

Downloaded from www.Manualslib.com manuals search engine

Figure 2-2 Opening the Ejector Handles

4 Make sure that the screws have been loosened enough so that they "float" in the holes and do not catch on the front panel.

5 Keeping the ejectors in the openmost position, remove the switch module by sliding it outwards.

6 If you experience difficulty in removing the switch, insert the special key in the space above the switch module on the right side near the black handle of the power supply (Figure 2-3).

Downloaded from www.Manualslib.com manuals search engine

Figure 2-3 Inserting the Special Key

7 Raise the key and slide the switch module out (Figure 2-4).

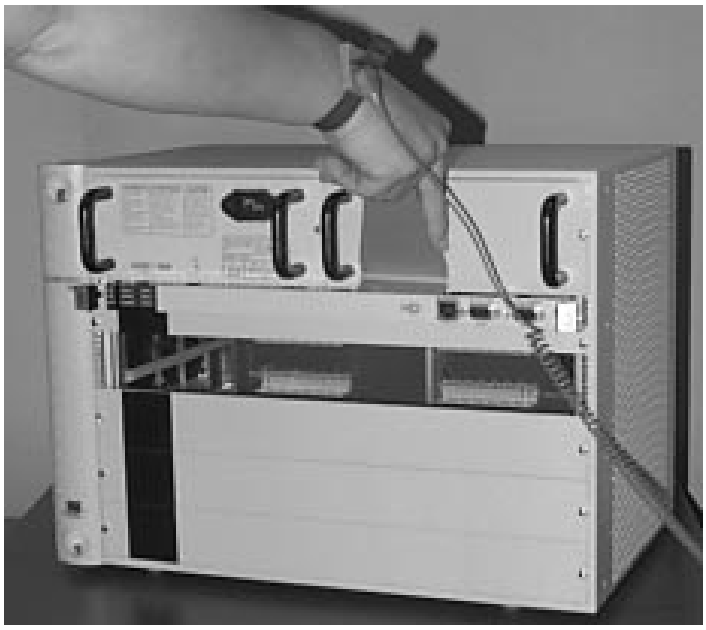


Figure 2-4 Sliding the Switch Module Out

8 Using both hands, pull the switch module out.

Downloaded from www.Manualslib.com manuals search engine

Only use the special key provided if you have difficulty in removing the switch module.

9 Place the switch module on a grounded surface or antistatic bag with all components facing up.

Step 2 Removing the 16MB Memory SIMM

1 The memory SIMM is located on the lower left corner of the module when the front panel is facing you. (Figure 2-5) On the top of the memory SIMM there are two metal spring clips (one on each side of the SIMM) that hold the SIMM in place (Figure 2-6).

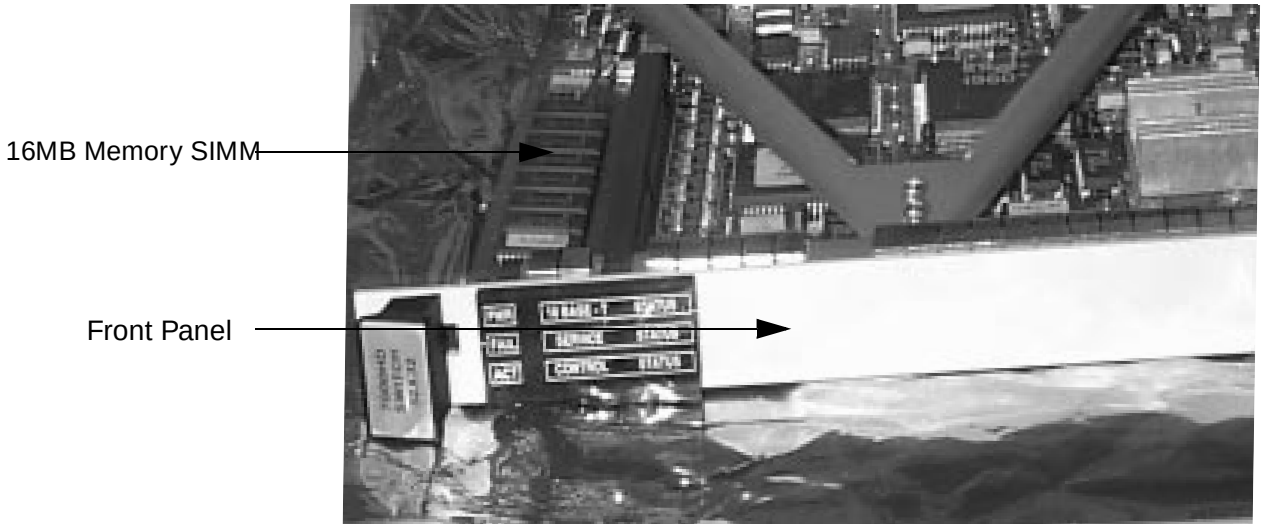


Figure 2-5 Position of 16MB SIMM in CoreBuilder 7000HD Switch Module - Front View

Downloaded from www.Manualslib.com manuals search engine

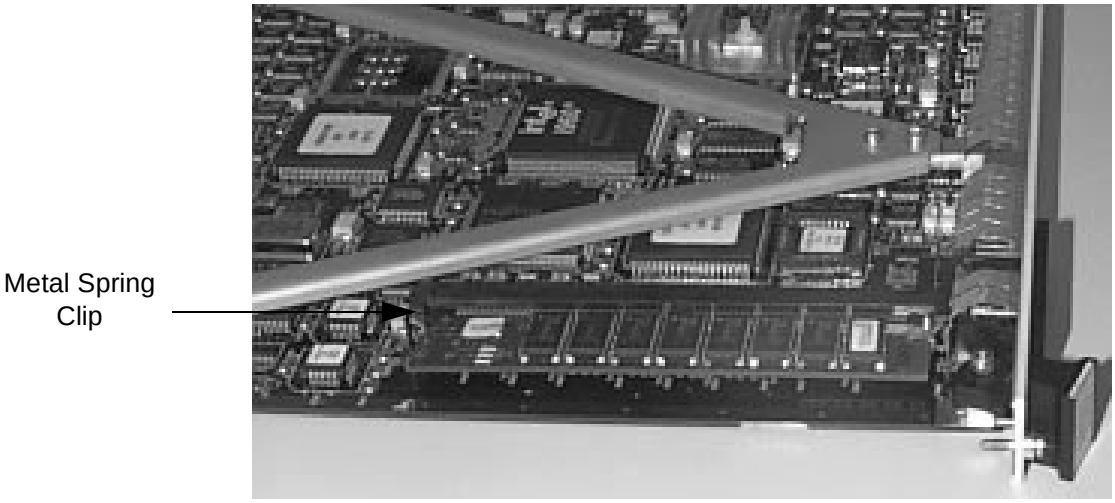


Figure 2-6 Side View of the Memory SIMM

2 With your thumbs, push the clips outward to release the SIMM. When pressed, the SIMM releases and rises slightly (Figure 2-7).

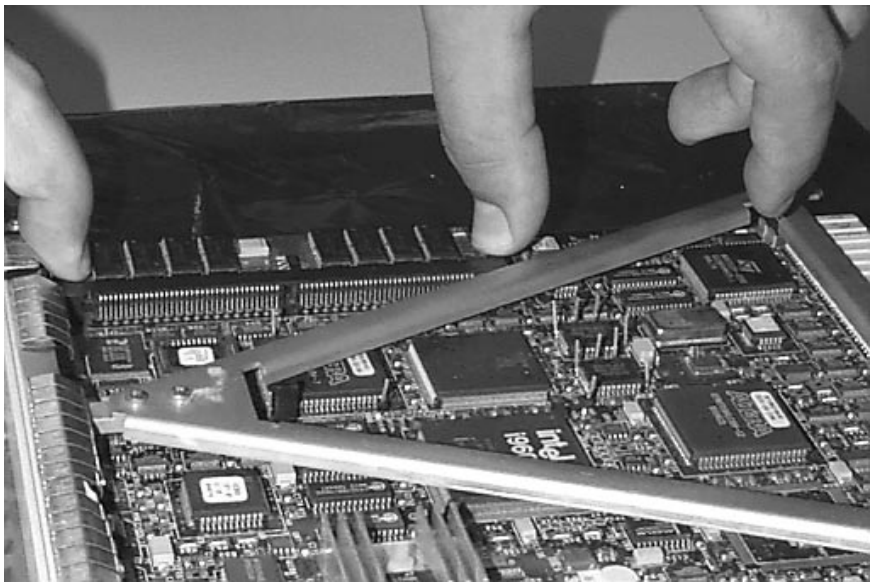


Figure 2-7 Removing the 16MB SIMM

3 With your thumb and index finger, remove the SIMM from the connector at a 45 degree angle (Figure 2-8).

Downloaded from www.Manualslib.com manuals search engine

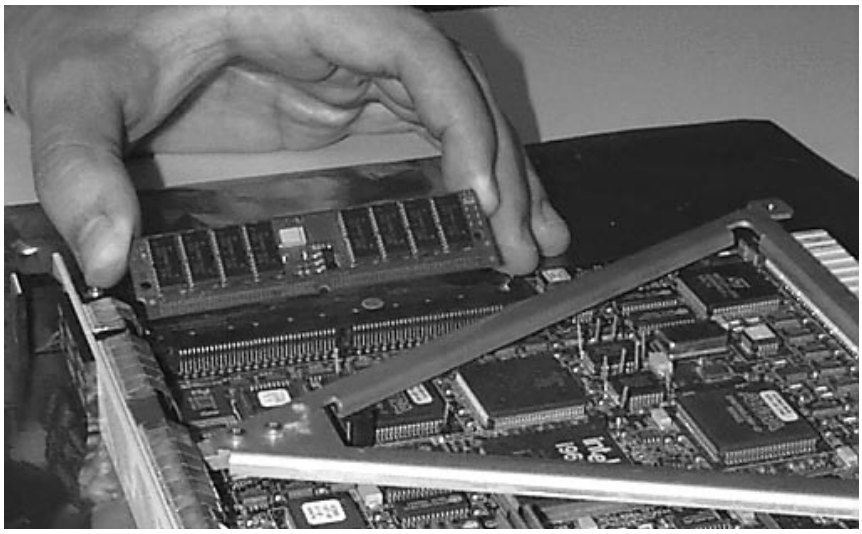


Figure 2-8 Removing the 16MB SIMM at a 45 Degree Angle

Step 3 Inserting the 32MB Memory SIMM

1 Remove the 32MB Memory SIMM from the packaging material.

2 Make sure that the front panel of the switch module is facing you, and that the switch is on proper grounding material, or an antistatic bag.

3 Make sure that you hold the SIMM as follows:

a The cutout on the gold connector edge is facing the front panel (Figure 1-2).

b The SIMM is held at a 45 degree angle.

4 Insert the SIMM with its gold connector into the black connector at a 45 degree angle (Figure 2-9).

Downloaded from www.Manualslib.com manuals search engine

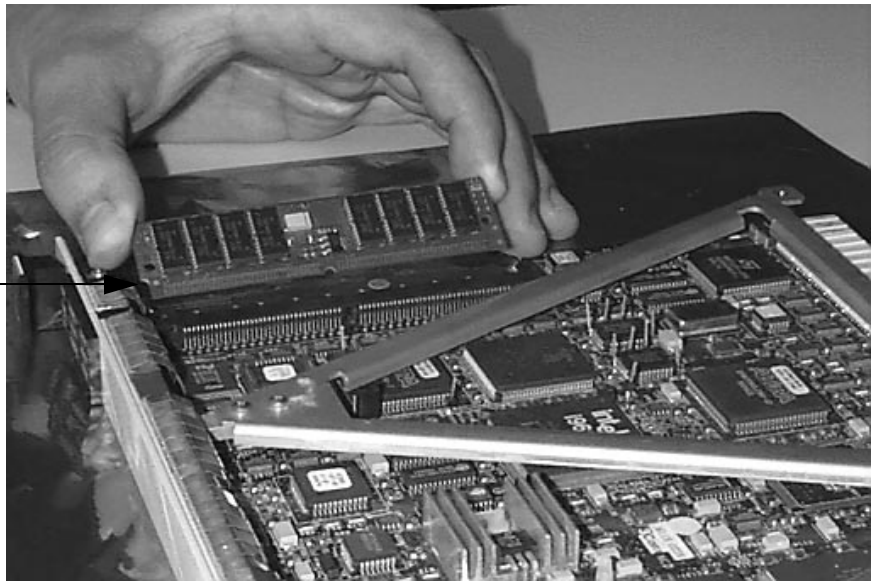


Figure 2-9 Inserting the 32MB Memory SIMM

5 With one or two fingers (not on the chips) gently press down. A click is heard when the SIMM is in place (Figure 2-10).

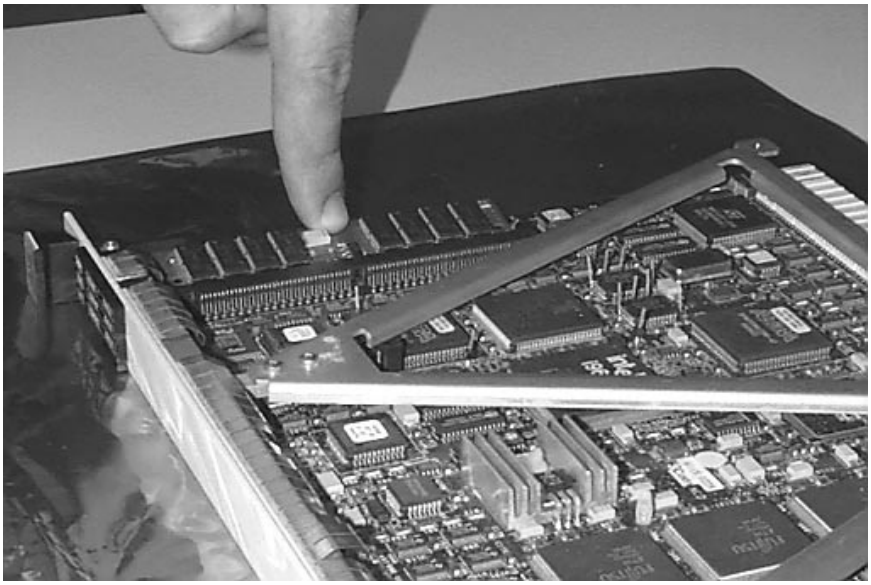


Figure 2-10 Pushing the 32MB SIMM in Place

Downloaded from www.Manualslib.com manuals search engine

Step 4 Returning the CoreBuilder 7000HD Switch Module back to the Chassis

1 Orient the Switch Module so its labelling is upright and make sure the eject handles are in the outward position.

2 Insert the module into the chassis by placing it in the guides of the selected slot and slide the module with two fingers until it stops. While inserting the module, raise it up a little and slide it in.

3 Grab both ejector handles and push them inward. This locks the module into the chassis. You may have to apply considerable pressure to the handles. An audible "click" indicates that the connectors have engaged. Verify that the card has been properly installed by observing its LEDs.

4 Tighten the module's securing screws.

Verifying 32MB Memory Upgrade

To verify that the switch module's memory has been upgraded successfully, follow the steps below:

1 Reconnect all the cables to the switch module's ports according to the record you made of the cables.

2 Reconnect the power cable.

3 Login to the LMA with the username: **admin**.

4 From the LMA of the CoreBuilder 7000HD Switch Module, select option `(1) SYS: Platform config` and then select option `(4) SWM: Switch modules`

5 The following information should be displayed:

```
Slot     Slot status     Switch type           Switch mode     Memory    Clock
----     -----------     ----------------     ------------    ------    -----

   1         Occupied     32x32 ATM switch     Active           32M       40MHz
   2          Free

Active switch MAC address: 00.c0.da.7f.81.f5
Active switch sys up time: 0 day(s), 19:06:19
```

6 Check that the memory shown is 32M.

Downloaded from www.Manualslib.com manuals search engine

Downloaded from www.Manualslib.com manuals search engine

INDEX

Numbers

16MB memory SIMM
    removing 2-5
32MB memory upgrade
    verifying 2-9
32MB memory upgrade installation guide i
8-Port Board i

A

Administration Console iii
assembly kit i
ATM switch ii

C

conventions used in this guide ii
CoreBuilder 7000 Installation and Startup Guide ii
CoreBuilder 7000 Switch Module
    removing 2-1
CoreBuilder 7000HD i, ii
    User Guide ii
CoreBuilder 7000HD User Guide ii

D

documentation
    related ii

E

ejector handles 2-2

G

guide
    conventions ii
    organization i
    scope i

H

how to read documentation ii

I

icons
    notice ii
installation
    memory upgrade 2-1

K

key 2-3

L

LAN Emulation iii
LMA
    Logging in 2-9

M

memory chipset i
memory SIMM
    removing 2-5
memory upgrade
    installing 2-1
    verifying 2-9
memory upgrade installation guide i

N

notice icons ii

O

organization of this guide i

R

related documentation ii

S

scope of this guide i

T

typographical conventions ii

Downloaded from www.Manualslib.com manuals search engine

V

verifying memory upgrade 2-9

W

who should use this guide i

Downloaded from www.Manualslib.com manuals search engine